Prüfbericht-Nr.: *Test report no.*:	**60434546 001**	**Auftrags-Nr.:** *Order No.*:	**170267237**	**Seite 1 von 4** *Page 1 of 4*
Kunden-Referenz-Nr.: *Client reference no.*:	**N/A**	**Auftragsdatum:** *Order date*:	2021-01-22	
Auftraggeber: *Client*:	**GlobTek, Inc.** *186 Veterans Dr. Northvale, NJ 07647 USA*			
Prüfgegenstand: *Test item*:	**Switching Adapter**			
Bezeichnung / Typ-Nr.: *Identification / Type No.*:	GT-83084-WW06-X.X-USB-W2E (WW, X.X are variables, details see model list on page 2)			
Auftrags-Inhalt: *Order content*:	TÜV Rheinland EU plug test report			
Prüfgrundlage: *Test specification*:	EN 50075: 1990 (Partial)			

Wareneingangsdatum: *Date of sample receipt*:	2021-01-22	Detailed photo documentation see attachment of test report **60434546 001** (Photo document).
Prüfmuster-Nr.: *Test sample No.*:	N/A	
Prüfzeitraum: *Testing period*:	N/A	
Ort der Prüfung: *Place of testing*:	TÜV Rheinland (Guangdong) Ltd.	
Prüflaboratorium: *Testing laboratory*:	TÜV Rheinland (Guangdong) Ltd.	
Prüfergebnis*: *Test result**:	Pass	

überprüft von:
reviewed *by:* *__Spark Li*
Datum:
Date: 2021-02-05
Stellung / Position: Project Engineer

Genehmigt von:
authorized *by:* *_Ben Zeng*
Datum:
Date: 2021-02-05
Stellung / Position: Technical Certifier

Sonstiges/ *Other:*

- See next page for details.

Zustand des Prüfgegenstandes bei Anlieferung:
Condition of the test item at delivery: Prüfmuster vollständig und unbeschädigt
Test item complete and undamaged

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

TUV Rheinland (Guangdong) Ltd. No.199 Kezhu Road, Guangzhou Science City, Guangzhou 510663, Guangdong Province P.R. China
Mail: service-gc@tuv.com Web: www.tuv.com

Sonstiges/ *Other Aspects:*

- TÜV Rheinland EU plug test report.

Model list:

GT-83084-WW06-X.X-USB-W2E

Model	INPUT	OUTPUT		
	V,A	V dc	Max. A	Max. VA(W)
GT-83084-WW06-X.X-USB-W2E	100-240Vac, 50/60Hz, 0.3A Or 200-240Vac, 50/60Hz, 0.3A	5.0-5.2	2.1	11.0

Note:

Variable:	Range of variable:	Content:
WW	'WW' is 2 digit number code, from 01 to 11	Which represents the output wattage in Watt, in a step of 1.0 W, for example, 11 represents the output wattage is 11.0W.
X.X	'X.X' is 2 digit number code, from 0.8 to 1.0	Which represents the output voltage differentiator in Volts from standard output voltage 06, in a step of 0.1V, for example, 0.8 represents the output voltage is 6-0.8=5.2V, 1.0 represents the output voltage is 6-1.0=5.0V.

Summary of testing:	
Tests performed (name of test and test clause): - Plug portion test, details see attachment 1.	**Testing location:** TÜV Rheinland (Guangdong) Ltd. No.199 Kezhu Road, Guangzhou Science City 510663 Guangzhou China

When differences exist; they shall be identified in the General product information section.
General product information: 1. The power pin parts of European plug was fixed into the enclosure of plug portion by a screw. It is impossible to remain in the mains socket-outlet after removal of the adapter, detail see photo document. 2. Plug portion was used for Models as model list on page 2 **Attachment list:** 1. Attachment 1_Plug portion test data (7 pages) 2. Attachment 2_Photo Documentation (4 pages)

TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity1)
European plug	GlobTek	GT	2.5A, 250Vac	EN 50075	Tested with appliance
- Plug holder	SABIC Innovative Plastics	SE1X	PPE+PS, V-1, 105°C.	UL 94	UL E121562
(Alternative)	Covestro Deutschland AG.	FR6005	PC, V-0, 105°C.	UL 94	UL E41613

-END-

EN 50075 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict

European plug portion test:

6	**Marking**		**P**
	Appliances shall be marked as follows:	Incorporated with adaptor.	**P**
	Rated current in amperes (A)		**P**
	Rated Voltage in volts (V)		**P**
	Symbol for nature of supply (~)		**P**
	Name, trade mark or idendification mark of manufacturer or responsible vendor		**P**
	Type reference		**P**

7	**Dimensions**			**P**
	Plug shall comply with Standard Sheet 1			**P**
	Between two pins (pin base)	18.0 – 19.2 mm	18.42 mm	**P**
	Between two pins (pin top)	17.0 – 18.0 mm	17.79 mm	**P**
	Diameter of pin (metallic part)	$4^{\pm 0.06}$ mm	3.97 mm	**P**
	Diameter of pin (pin base)	max. 4.0 mm	3.77 mm	**P**
	Diameter of pin (middle part)	max. 3.8 mm	3.49 mm	**P**
	Pin length	$19^{\pm 0.5}$ mm	18.77 mm	**P**
	Length of pin except metal part	$10^{+ 1.0}$ mm	10.10 mm	**P**
	Shape of pin top		Round shape mm	**P**
	Length of plug base	$35.3^{\pm 0.7}$ mm	35.49 mm	**P**
	Width of plug base	$13.7^{\pm 0.7}$ mm	14.29 mm	**P**
	Diagonal dimension of plug base within a distance of 18mm	$26.1^{\pm 0.5}$ mm $26.1^{\pm 0.5}$ mm	26.43 mm 26.24 mm	**P**

8	**Protection against electric shock**		**P**
8.1	Live parts of the plug not accessible (standard test finger)	Incorporated with adaptor.	**P**
8.2	No connection between one plug-pin and socket outlet		**P**
8.3	External parts of insulating material		**P**

9	**Construction**		**P**
9.1	Plugs are not rewirable	Incorporated with adaptor.	**P**
9.2	Switches, fuse, lampholder not incorporated		**P**
9.3	Solid pins	See clause 13	**P**
	Adequate mechanical strength		**P**
9.4	Pins locked against rotation	See clause 13.1 & 13.4	**P**

EN 50075 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict
	Adequate fixed into the body		**P**
9.5	Kind of connection		**P**
9.6	Easily to be withdrawn from socket-outlet	Incorporated with adaptor	**P**
10	**Resistance to humidity**		**P**
	-Humidity treatment for 48 hours	Tested with adaptor.	**P**
11	**Insulation resistance and electric strength**		**P**
11.1	Insulation resistance (500V, min 5MΩ)	(see appended table)	**P**
11.2	Electric strength (2000V)	(see appended table)	**P**
13	**Mechanical strength**		**P**
13.1	Pressed with 150N for 5 min		**P**
13.2	Tumbling barrel according to EN 50075, Number of cycles: 500	Adaptor mass: 46 g 500 cycles were conducted in a bumbling barrel as shown in figure 8. Three samples tested. After the test, it was fulfilled the requirements of being introduced into the gauge of figure 2.	**P**
	No damages after the test		**P**
	Requirements of clause 7 and 8.2 still fulfilled		**N/A**
13.3	Rubbing test of plug-pins: 10000 cycles, 4N		**P**
	No damage of the pins		**P**
13.4	Pull test at 70°C with 40N		**P**
	Pins not more than 1 mm displaced	Displacement: 0.2 mm	**P**
14	**Resistance to heat and to aging**		**P**
14.1	Sufficient resistant to heat	Incorporated with adaptor.	**P**
14.1.1	After 1 h in heating cabinet at 100°C no damage shown	Tested with adaptor.	**P**
14.1.2	After 1 h in heating cabinet at 80°C and a force of 20N through the jaws no damage shown		**P**
14.2	Aging test		**P**
	-at 70°C for 168h		**P**
	-at room temperature for 96h		**P**
	No traces of cloth at a force of 5N		**P**

EN 50075 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict
	No damage leads to non-compliance		**P**
15	**Current-carrying parts and connections resistance to heat and to aging**		**P**
15.1	Connections withstand the mechanical stresses occurring in normal use		**P**
15.2	Contact pressure not through isolating material		**P**
15.3	Current carrying parts of copper		**P**
	No electroplated coating when part is subjected to mechanical wear		**P**
	Other metals having a mechanical strength, an electrical conductivity and a resistance to corrosion		**N/A**
16	**Creepage distances, clearances and distances through insulation**		**P**
	Live parts of different polarity: 3mm	14.2mm	**P**
	Through insulation between live parts and accessible surfaces: 1.5mm	5.6mm	**P**
17	**Resistance of insulation material to abnormal heat and fire**		**P**
	Insulating material not unduly affected by abnormal heat and by fire	(see appended table)	**P**

EN 50075 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict

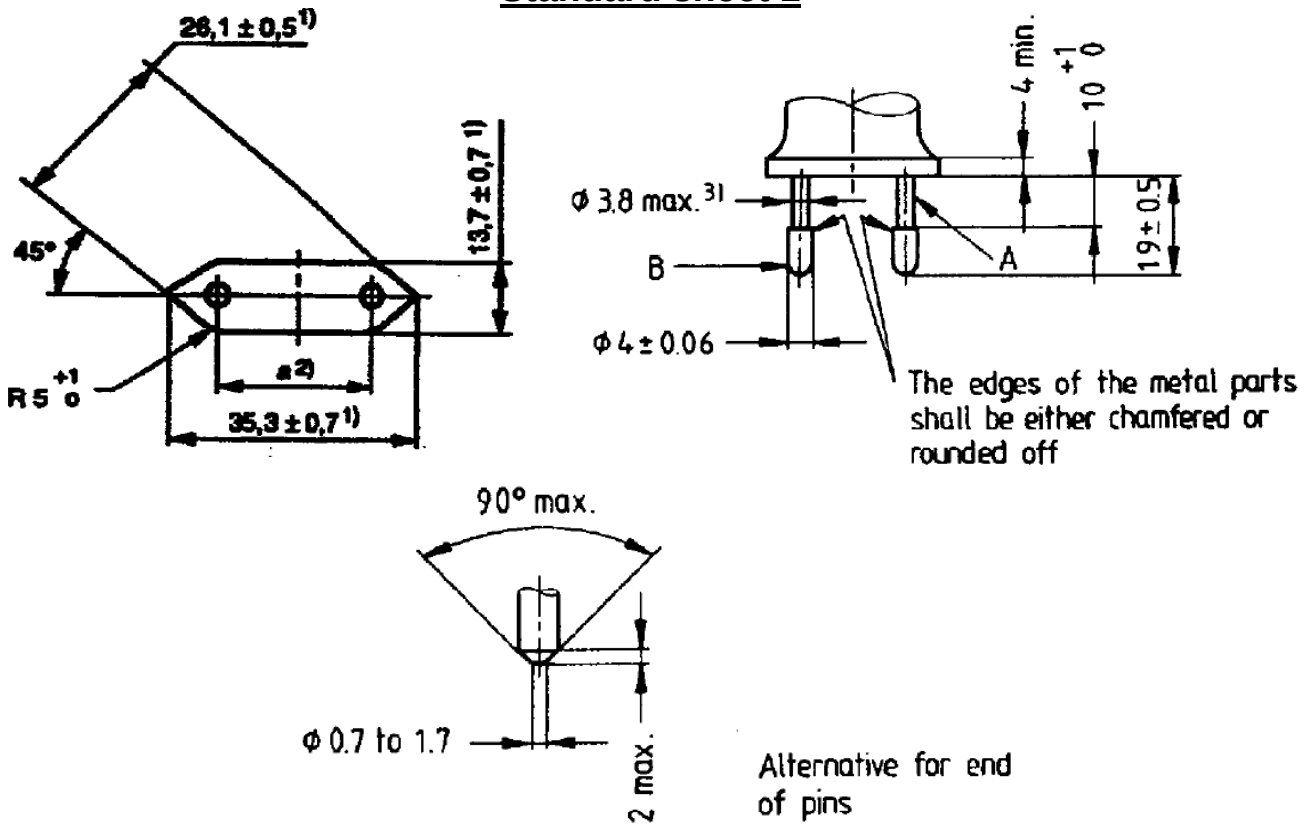
11.1	**TABLE: Insulation resistance measurements**	**P**
Measured between:	Result	
Pins connected together and the body (≥ 5MΩ)	200MΩ	**P**
Each pins in turn and the other, the latter being connected to the body (≥ 5M Ω)	200MΩ	**P**
Note: --		

11.2	**TABLE: electric strength measurements**	**P**
Test voltage applied between:	Test voltage (V)	Break down
Pins connected together and the body	2000VAC	No
Each pins in turn and the other, the latter being connected to the body	2000VAC	No
Note: --		

17.3	**TABLE: Resistance of insulating material to abnormal heat and to fire**	**P**
Parts that retain current-carrying parts in position: 750°C		**P**
Other parts: 650°C		**P**
Note: --		

EN 50075 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict

Standard sheet 1



Dimensions in millimetres

A = insulating collar

B = metal pin

1) These dimensions shall not be exceeded within a distance of 18 mm from the engagement face of the plug.

2) Dimension *a* is:

18 mm to 19,2 mm in the plane of the engagement face;

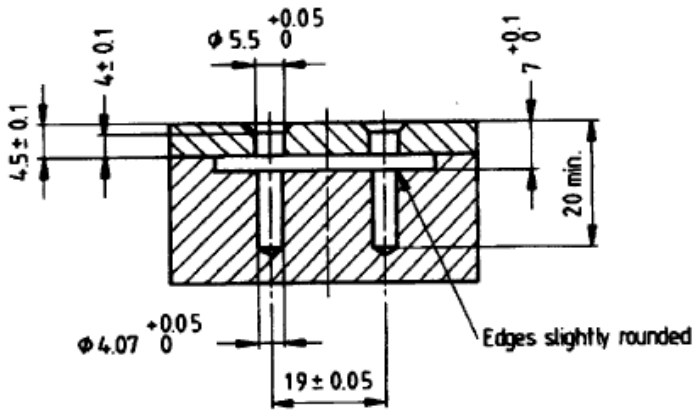
17 mm to 18 mm at the ends of the pins.

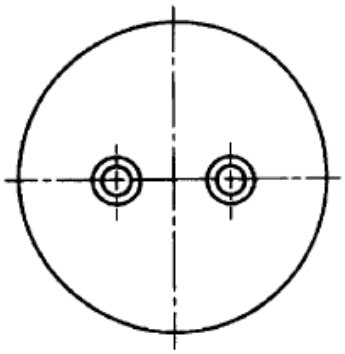
3) This dimension may be increased to 4 mm within a distance of 4 mm from the engagement face of the plug.

Pin ends shall be rounded, or conical as shown in detail sketch.

The sketches are not intended to govern design except as regards the dimensions shown.

EN 50075 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict



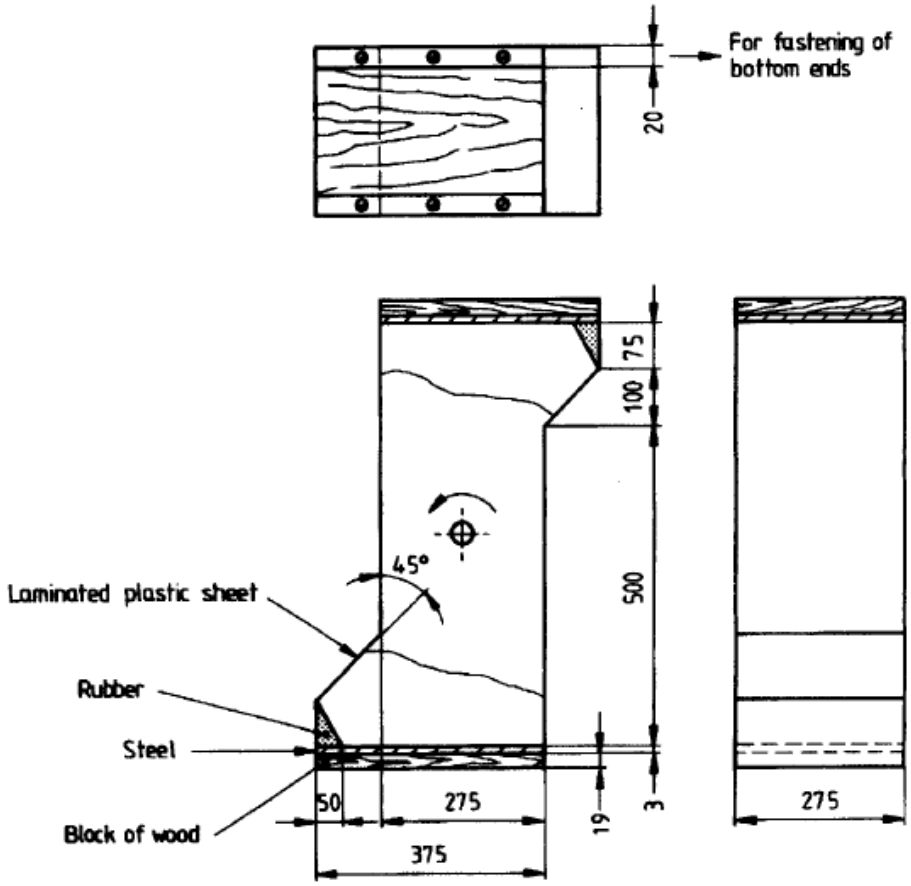


Dimensions in millimetres

It shall be possible to insert the plugs into the gauge without undue force so that the engagement face comes into contact with the surface of the gauge.

Figure 2. Gauge for interchangeability

EN 50075 (Partial)			
Clause	Requirement – Test	Result - Remark	Verdict



Dimensions in millimetres

The body of the tumbling barrel shall be made of steel sheet of 1.5 mm thickness.

The compartments where the sample rests between individual falls, shall be backed by a rubber part made of chip-resistant rubber with a hardness of 30 IRHD and the sliding surfaces of these same compartments shall be made of laminated plastic sheet, such as "formica".

The tumbling barrel shall be provided with an aperture with lid made of transparent acrylic.

The shaft of the tumbling barrel shall not protrude into the barrel itself.

Figure 8. Tumbling barrel